

LESSO

Residential Smart Energy Solutions



Intelligent Storage for Smart Living

for Europe & Oceania

Ver. 2026.01

A Bright and Exciting Journey

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD4.38 billion from its global operations.

LESSO Solar, a flagship division of LESSO Group, specialises in manufacturing solar panels, inverters, and energy storage systems, and providing solar-energy solutions.

Since launching its global expansion strategy in 2022, LESSO Solar has been growing at a spectacular pace, extending its reach to over 50 countries worldwide with dedicated global support teams.



USD4.38 bil

Annual Sales Revenue



4 major

Production Bases



40 years

Production Experience



50+ countries

Global Support Teams



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By utilizing only the finest raw materials and cutting-edge technology, we meticulously oversee every stage of the production process to provide our customers with the highest-quality products.



INTELLIGENT STORAGE FOR SMART LIVING



SAFETY

The battery system complies with multiple key international standards – UN38.3, MSDS, etc.



EFFICIENCY

MPPT efficiency **>99%**, PV efficiency **>96%**, system efficiency up to **95%**.



DURABILITY

Module warranty **30** years, system design life **>15** years.



RELIABILITY

Grid/solar/battery switching time **<10** ms for an uninterrupted experience.



FLEXIBLE

Requires only **4.5** m²/kW for module installation, fitting different installation scenarios easily.



8kW Hybrid Solar Energy Solution



For high-demand homes: multi-zone AC, large appliances.

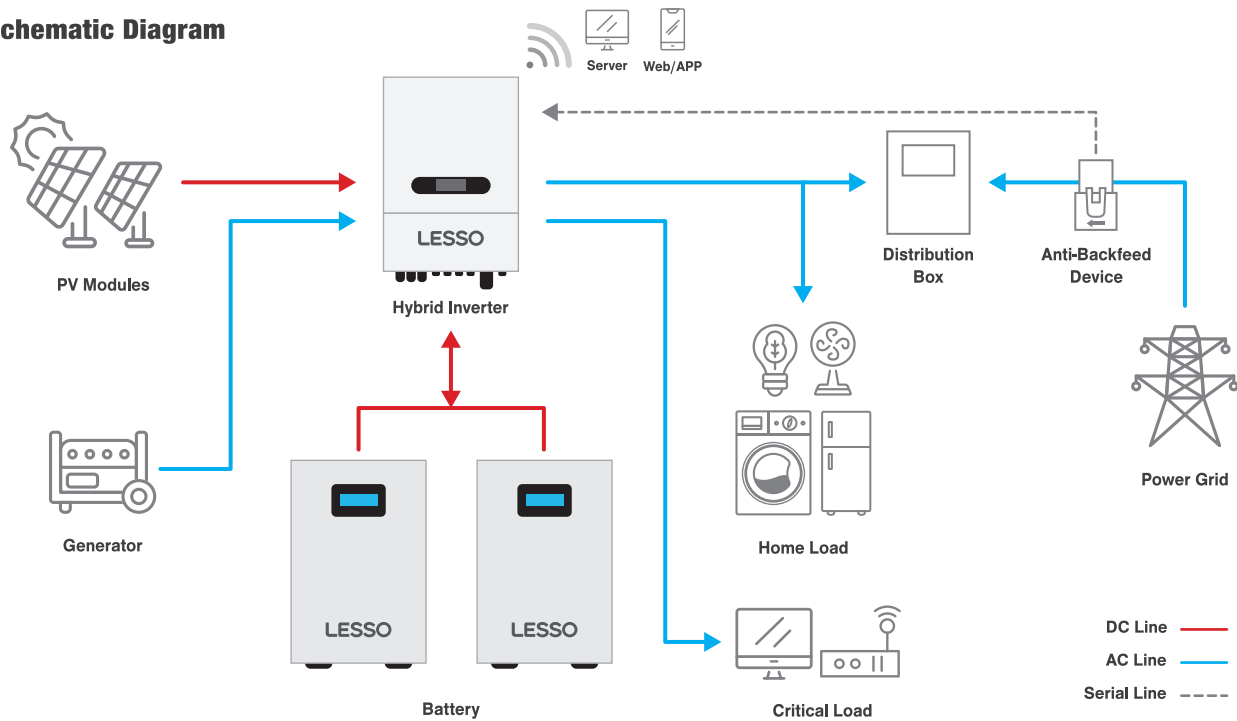


Output: 66kWh/day, supports extensive backup needs.



High-capacity hybrid operation & scalable storage for energy independence.

Schematic Diagram



System Configuration

	8kW+23.5kWh
AC Output Type	Single phase 220/230Vac L-N
PV Capacity	450Wp x 33pcs
Daily Average Energy Production (5h)	66kWh
PV Installation Footprint	> 66m ²
Energy Storage Capacity	51.2V / 230Ah / 11.7kWh ×2
Inverter	8kW
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* The battery pack can be expanded to 4 groups (the battery distribution box needs to be replaced).

* The daily average available energy production is calculated based on 90% of the total power of PV modules.

* Remark: Specifications are subject to change without notice.

12kW Hybrid Solar Energy Solution



For premium estates:
full-house automation,
pools, workshops.

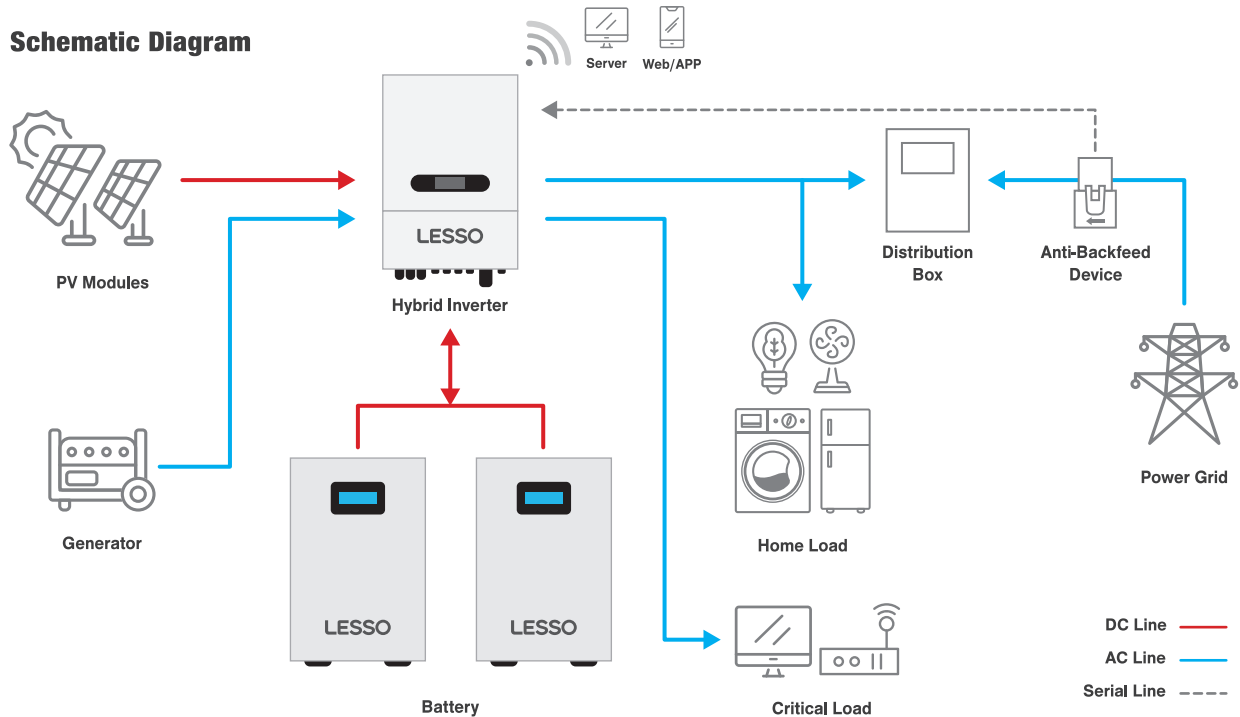


Output: 97kWh/day,
enables full energy
self-sufficiency.



Utility-scale hybrid power &
intelligent storage for
zero-waste energy.

Schematic Diagram



System Configuration

	12kW+23.5kWh
AC Output Type	Three phase 380/400Vac L1-L2-L3-N
PV Capacity	450Wp x 48pcs
Daily Average Energy Production (5h)	97kWh
PV Installation Footprint	> 96m ²
Energy Storage Capacity	51.2V / 230Ah / 11.7kWh ×2
Inverter	12kW
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* The battery pack can be expanded to 4 groups (the battery distribution box needs to be replaced).

* The daily average available energy production is calculated based on 90% of the total power of PV modules.

* Remark: Specifications are subject to change without notice.

Product Specifications

450C(HBD)48(210R)

210R N-TOPCon dual-glass bifacial PV module

Solar cell type: 210R N-TOPCon Mono Cell (Half cell)

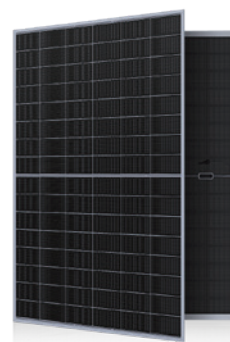
Solar cell arrangement: 96pcs(6x16)

Max power: 450W

Max efficiency: 22.52%

Dimension: 1762x1134x30mm

Weight: 24.7kg



LEC-802/123

Hybrid inverter

Rated power: 8kW/12kW

DC input voltage: 48Vdc

Output voltage: 230V/240V@8kW, 380V/400V@12kW

Output type: Single phase / Three phase



LHD-51G230L

Low voltage battery

Nominal voltage: 51.2Vdc

Nominal capacity: 230Ah

Nominal energy: 11.7kWh

Battery type: LiFePO₄ battery



Residential Solar Power Project Highlights



Location: Essex, UK | **Project Capacity:** 16.3kWp PV + 2x5kW Hybrid Inverters / 6x5kWh Batteries



Location: Essex, UK | **Project Capacity:** 7.7kWp PV + 2x5kW Hybrid Inverters / 3x10kWh Batteries



Location: Greater London, UK | **Project Capacity:** 2.2kWp PV + 2x5kW Hybrid Inverters / 3x10kWh Batteries

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LESSO Group (2128) is listed in the Stock Exchange of Hong Kong.